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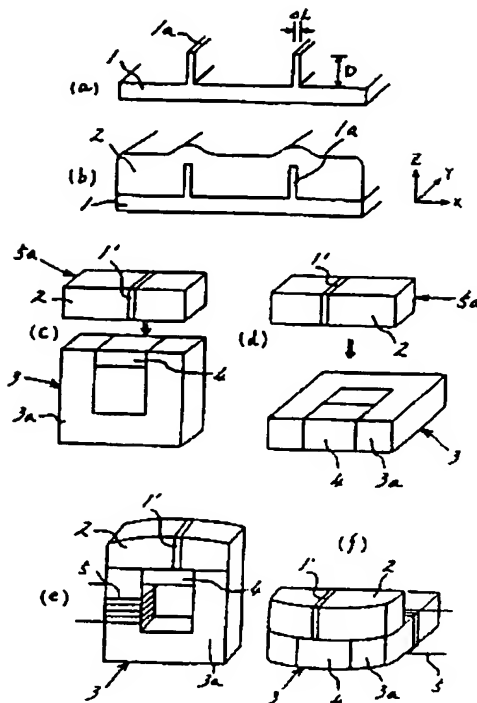
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APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR : SAKAKIMA HIROSHI;

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TITLE : PRODUCTION OF MAGNETIC HEAD



ABSTRACT : **PURPOSE:** To improve the mechanical strength and yield of a magnetic metallic head by etching a silicon or gallium arsenic substrate to a prescribed measure and shape by plasma etching, then depositing and forming a ferromagnetic alloy film thereby by a sputtering method or vacuum deposition method.

CONSTITUTION: The silicon or gallium arsenic substrate 1 is worked by the plasma etching method so as to have sheet parts 1a which erect from the bottom part of the substrate and have the thickness ΔL and height D corresponding to the spacing of a magnetic gap. The ferromagnetic alloy film layer 2 is deposited and formed continuously on both sides of the sheet parts 1a to form the prototype of the front core part of the magnetic head. A front core part 5 exposed with the sheet part 1a as the magnetic gap on the outer side face is formed by machining, etc. This front core part 5a is joined to the end face of the back core part 3 and thereafter, the surface for sliding with a tape is worked to a curved surface and a winding 5 is formed to the core, by which the magnetic head is produced.

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